

Amendment to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims

Claim 1 (currently amended): A method for permanently dyeing hair which comprises subjecting said hair to a number of treatments, having a set time interval between each two consecutive such treatments, wherein each treatment comprises ~~steps a.) and b.) below:~~

- a.) contacting said hair[[,]] for a period of about 5 seconds to about ~~5-2~~ minutes with a recently made mixture of:

part ai: oxidative dye intermediates in a shampoo base at alkaline pH; and wherein part ai optionally has about 0.01 to about ~~5.0%~~ 5% of a conditioning agent and optionally has about 0.01 to about ~~10.0%~~ 10% of a structurant;

part aii: an oxidative compound in a shampoo base at acidic pH and wherein part aii optionally has about 0.01 to about ~~5.0%~~ 5% of a conditioning agent; and optionally has about 0.01 to about ~~10.0%~~ 10% of a structurant;

with the proviso that at least one of part ai and part aii has about 0.01 to about ~~5.0%~~ 5% of a conditioning agent; and at least one of part ai and part aii optionally has about 0.01 to about ~~10.0%~~ 10% of a structurant.

b.) rinsing said mixture from said hair with water;

and wherein said number of treatments with an identically formulated mixture is ~~between about 2 to about 30~~ at least 6 or more; and wherein said set time interval between each two consecutive treatments is between about 8 hours and 30 days.

Claim 2 (currently amended): A method according to claim 1, wherein said dye intermediate is selected from the group consisting of:

m-aminophenol;
p-phenylene diamine;
p-toluenediamine;
~~p-phenylenediamine;~~
2-chloro-p- phenylenediamine;
N-phenyl-p-phenylenediamine;
N-2-methoxyethyl-p- phenylenediamine;
N,N-bis-(hydroxyethyl)-p-phenylenediamine;
2-hydroxymethyl-p-phenylenediamine;
2-hydroxyethyl-p-phenylenediamine;
4, 4'-diaminodiphenylamine;
2,6-dimethyl-p-phenylenediamine;
2-isopropyl-p- phenylenediamine;
N-(2-hydroxypropyl)-p-phenylenediamine;
2-propyl-p- phenylenediamine;
1,3-N, N-bis-(2-hydroxyethyl)-N, N-bis (4-aminophenyl)- 2-propanol;
2-methyl-4-dimethylaminoaniline;
p-aminophenol;
p- methylaminophenol;
3-methyl-p-aminophenol;

2-hydroxymethyl-p-aminophenol;
2-methyl-p-aminophenol;
2-(2-hydroxyethylaminomethyl)-p-aminophenol;
2-methoxymethyl-p-aminophenol; and
5-aminosalicylic acid;
catechol;
pyrogallol;
o-aminophenol;
2, 4-diaminophenol;
2,4,5-trihydroxytoluene;
1,2,4-trihydroxybenzene;
2- ethylamino-p-cresol;
2,3-dihydroxynaphthalene;
5-methyl-o-aminophenol;
6-methyl-o-aminophenol; and
2-amino-5-acetaminophenol;
2-methyl-1- naphthol;
1-acetoxy-2-methylnaphthalene;
1,7-dihydroxynaphthalene;
resorcinol;
4-chlororesorcinol;
1-naphthol;
1,5-dihydroxynaphthalene;
2,7-dihydroxynaphthalene;
2-methylresorcinol;
1-hydroxy-6-aminonaphthalene- 3-sulfonic acid;
thymol (2-isopropyl-5-methylphenol);
1,5-dihydroxy-1,2, 3,4-tetrahydronaphthalene;
2-chlororesorcinol;

2,3-dihydroxy-1,4- naphthoquinone; and
1-naphthol-4-sulfonic acid;
m-phenylenediamine;
2-(2,4- diaminophenoxy)ethanol;
N,N-bis(hydroxyethyl)-m-phenylenediamine;
2,6- diaminotoluene;
N,N-bis(hydroxyethyl)-2,4-diaminophenetole;
bis(2,4- diaminophenoxy)-1,3-propane;
1-hydroxyethyl-2,4-diaminobenzene;
2-amino- 4 hydroxyethylaminoanisole;
aminoethoxy-2,4-diaminobenzene;
2,4- diaminophenoxyacetic acid;
4,6-bis(hydroxyethoxy)-m-phenylenediamine;
2,4-diamino-5-methylphenetole;
2,4-diamino-5-hydroxyethoxytoluene;
2,4- dimethoxy 1,3-diaminobenzene; and
2,6-bis(hydroxyethylamino) toluene;
~~m-aminophenol;~~
2-hydroxy-4- carbamoylmethylaminotoluene;
m-carbamoylmethylaminophenol;
6- hydroxybenzomorpholine;
2-hydroxy-4-aminotoluene;
2-hydroxy-4-hydroxyethylaminotoluene;
4,6-dichloro-m-aminophenol;
2-methyl-m- aminophenol;
2-chloro-6-methyl-m-aminophenol;
2-hydroxyethoxy-5- aminophenol;
2-chloro-5-trifluoroethylaminophenol;
4-chloro-6-methyl-m- aminophenol;

N-cyclopentyl-3-aminophenol;
N-hydroxyethyl-4-methoxy-2-methyl-m-aminophenol and
5-amino-4-methoxy-2-methylphenol;
2-dimethylamino-5-aminopyridine;
2,4,5,6-tetra-aminopyrimidine;
4,5-diamino-1-methylpyrazole;
1-phenyl-3- methyl-5-pyrazolone;
6-methoxy-8-aminoquinoline;
2,6-dihydroxy-4-methylpyridine;
5-hydroxy-1,4-benzodioxane;
3,4-methylenedioxyphenol;
4-hydroxyethylamino-1,2-methylenedioxybenzene;
2,6-dihydroxy-3,4- dimethylpyridine;
5-chloro-2,3-dihydroxypyridine;
3,5-diamino-2,6- dimethoxypyridine;
2-hydroxyethylamino-6-methoxy-3-aminopyridine;
3,4- methylenedioxyaniline;
2,6-bis-hydroxyethoxy-3,5-diaminopyridine;
4- hydroxyindole;
3-amino-5-hydroxy-2,6-dimethoxypyridine;
5,6-dihydroxyindole;
7-hydroxyindole;
5-hydroxyindole;
2-bromo-4,5- methylenedioxyphenol;
6-hydroxyindole;
3-amino-2-methylamino-6- methoxypyridine;
2-amino-3-hydroxypyridine;
2,6-diaminopyridine;
5-(3,5-diamino-2-pyridyloxy)-1,3-dihydroxypentane;

3-(3,5-diamino-2-pyridyloxy)- 2-hydroxypropanol ~~and~~
4-hydroxy-2,5,6-triaminopyrimidine[[,]]; |
or combinations thereof.

Claim 3 (original): A method according to claim 1, wherein said part ai prior to mixture with said part aii, has a pH of about 8 to about 11.

Claim 4 (original): A method according to claim 1, wherein said part aii, prior to mixture with said part ai has a pH of about 3 to about 4.

Claims 5-6 (canceled).

Claim 7 (original): A method according to claim 1 wherein said period for contacting said hair is between about 1/2 minute and about 2 minutes.

Claim 8 (original): A method according to claim 1 wherein said set time interval is between about 1 day and about 3 days.

Claim 9 (original): A method according to claim 1 wherein said hair is highlighted.

Claim 10 (original): A method according to claim 1 wherein said hair has a yield stress index in the range of about 200 to 1500.

Claim 11 (original): A method according to claim 1 wherein said hair has a yield stress index in the range of about 400 to 1500.

Claim 12 (original): A method according to claim 1 wherein said hair has a yield stress index in the range of about 800 to 1500.

Claim 13 (original): A method according to claim 1 wherein said hair has a combing index in the range of about 1.1 to about 4.0.

Claim 14 (original): A method according to claim 1 wherein said hair has a combing index in the range of about 1.2 to about 3.5.

Claim 15 (original): A method according to claim 1 wherein said hair has a combing index in the range of about 1.5 to about 3.0.

Claim 16 (original): A method according to claim 1 wherein said method minimizes hair outgrowth.

Claim 17 (original): A method according to claim 1 wherein said hair has a combing force of about 5 to about 55 gmforce.

Claim 18 (original): A method according to claim 1 wherein said hair has a combing force of about 10 to about 20 gmforce.

Claim 19 (original): A method according to claim 1 wherein said hair has a combing force of about 10 to about 16 gmforce.

Claim 20 (original): A method according to claim 1 wherein said method minimizes hair color fading.

Claim 21 (original): A method according to claim 1 wherein said hair minimize root outgrowth.

Claim 22 (original): A method according to claim 1 wherein said mixture of part ai and part aii delivers delta E of about 0.1 to about 65 on blonde hair and delta E of about 0.1 to about 8 on brown hair.

Claim 23 (original): A method according to claim 1 wherein said method delivers to said hair a ratio IR absorption at 1040/1240 of about 0.01 to 1.5.

Claim 24 (original): A method according to claim 1 wherein said method delivers to said hair a ratio IR absorption at 1040/1240 of about 0.01 to 1.0.

Claim 25 (original): A method according to claim 1 wherein said method delivers to said hair a ratio IR absorption at 1040/1240 of about 0.01 to 0.5.

Claim 26 (original): A method according to claim 1 wherein said oxidative compound is selected from the group consisting of hydrogen peroxide, urea peroxide, melamine peroxide, sodium perborate, sodium percarbonate, and mixtures thereof.

Claim 27 (original): A method according to claim 1 wherein part ai comprises from about 35% to about 98.9% water.

Claim 28 (original): A method according to claim 1, wherein the mixture of part ai and part aii has a neat viscosity of from about 500 cps to about 60,000 cps at 26.7.degree. C., as measured by a Brookfield RVTDCP with a spindle CP-41 at 1RPM for 3 minutes.

Claim 29 (original): A method in accordance with claim 1, wherein said hair has a break stress of about 0.005 to about 0.03 gmforce/micron.

Claim 30 (original): A method in accordance with claim 1, wherein said hair has a break stress of about 0.005 to about 0.025 gmforce/micron.

Claim 31 (original): A method in accordance with claim 1, wherein said hair has a break stress of about 0.005 to about 0.018 gmforce/micron.

Claim 32 (currently amended): A method for maintaining hair color through the use of a permanent hair dye which comprises subjecting said hair to successive treatments, having a set time interval between each two consecutive such treatments, wherein each treatment comprises ~~steps a.) and b.) below:~~

a.) contacting said hair[[,]] or a period of about 5 seconds to about ~~5~~ 2 minutes with a recently made mixture of:

part ai: oxidative dye intermediates in a shampoo base at alkaline pH and wherein part ai optionally has about 0.01 to about ~~5.0%~~ 5% of a conditioning agent; and wherein part aii optionally has about 0.01 to about ~~10.0%~~ 10% of a structurant;

part aii: An oxidative compound in a shampoo base at acidic pH and wherein part aii optionally has about 0.01 to ~~about 5.0%~~ 5% of a conditioning agent;

with the proviso that at least one of part ai and part aii has about 0.01 to about ~~5.0%~~ 5% of a conditioning agent; and wherein at least one part ai and part aii optionally has about 0.01 to about ~~10.0%~~ 10% of a structurant.

b.) rinsing said mixture from said hair with water;

and wherein said number of treatments with an identically formulated mixture is at least ~~about 2~~ 6; and wherein said set time interval between each two consecutive treatments is between about 8 hours and 30 days.

Claim 33 (original): A method according to claim 1 wherein said oxidative hair colorant is present at about 0.1% to about 1%.

Claim 34 (original): A method according to claim 1 wherein said oxidative dye intermediates are present at about 2 % to about 5 %.

Claim 35 (original): A dispenser for dispensing simultaneously part ai and part aii according to claim 1, which comprises:

- A.) a means for holding part ai and part ~~ai~~ aii in physically separate locations;
- B.) a means for protecting part ai and part aii from air prior to dispensing;
- C.) a means for dispensing part ai and part aii in equal amounts and in proximity to each other.

Claim 36 (original): A method according to claim 1 wherein part ai and part aii are mixed by hand.

Claim 37 (original): A method according to claim 1 which comprises rinsing said mixture of part ai and part aii from said hair with water in a shower.

Claims 38-40 (canceled).